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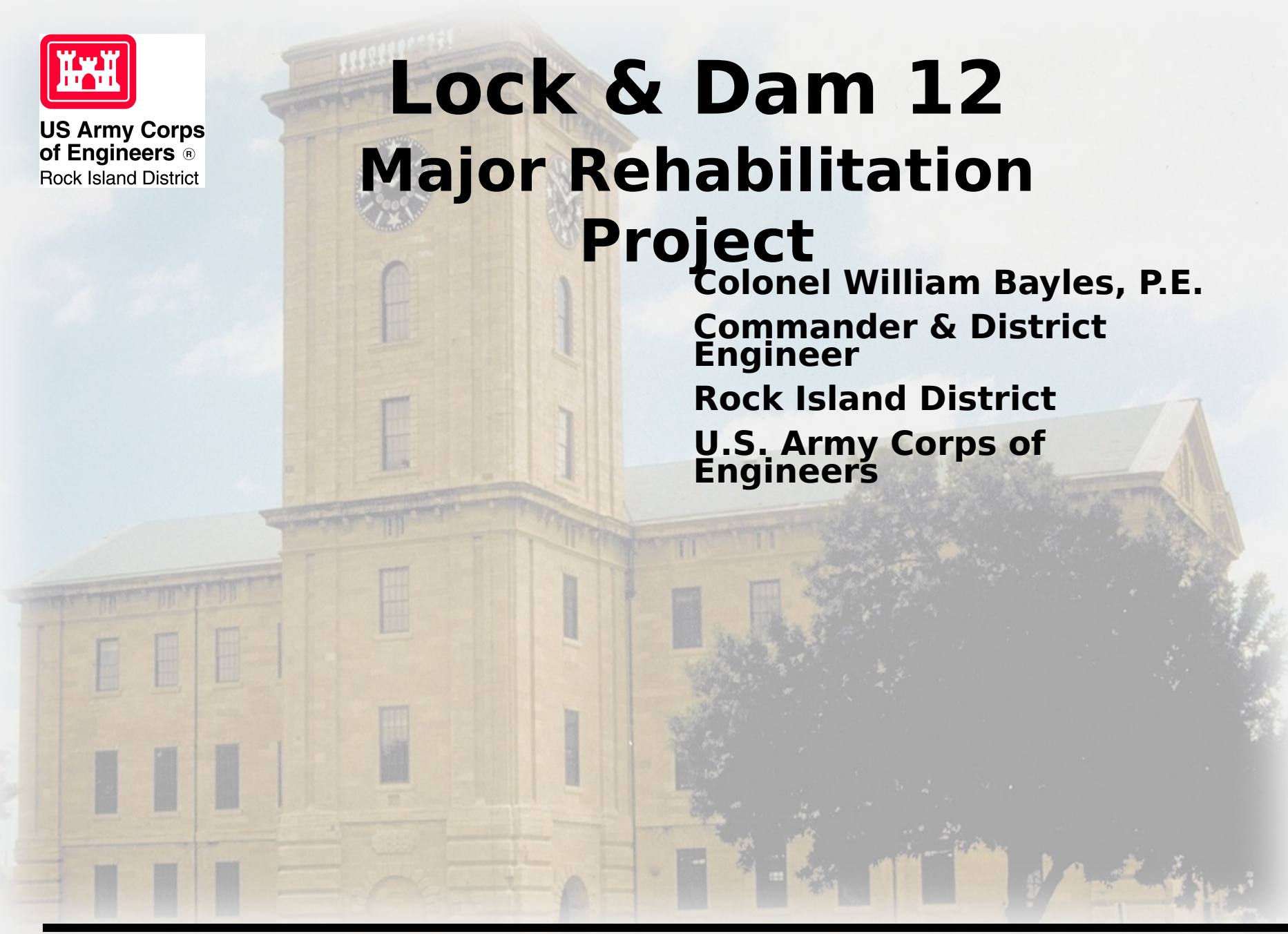
Rock Island District

Lock & Dam 12
Major Rehabilitation Project

Colonel William Bayles, P.E.
Commander & District Engineer
Rock Island District
U.S. Army Corps of Engineers



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Navigation

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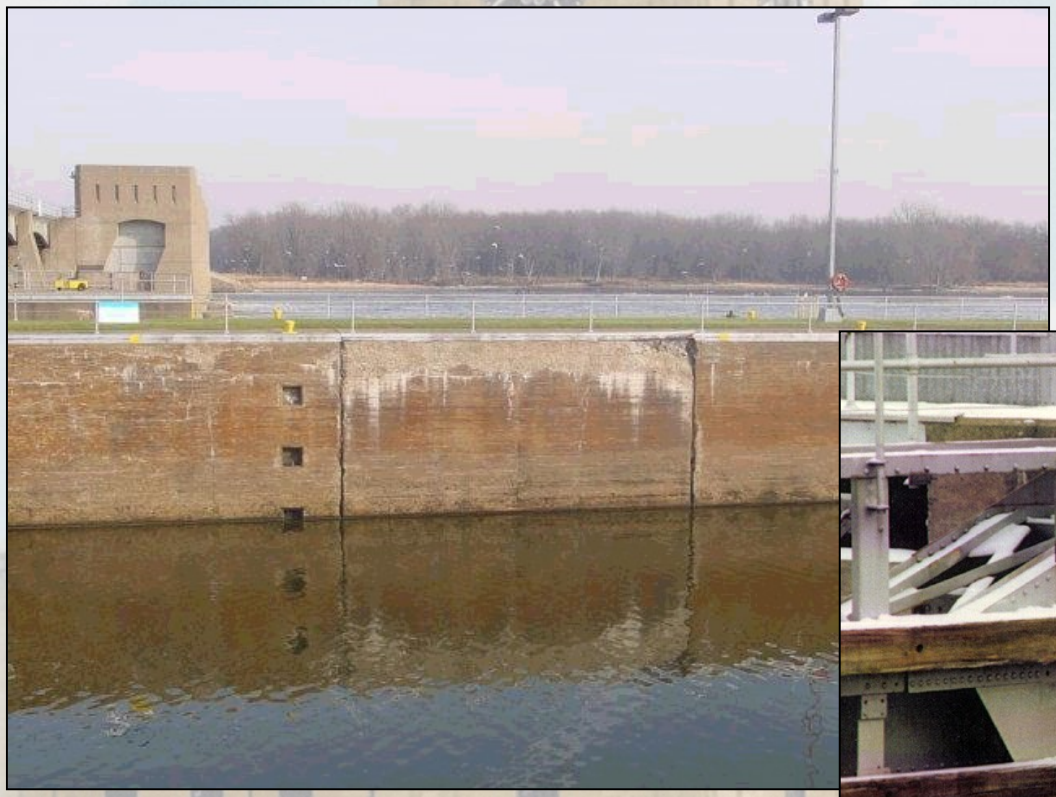
Lock & Dam 12 Deterioration



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Stage I: Scour Protection

- **Install Rockfill & Riprap 65 Ft. Upstream & 125 Ft. Downstream**
- **38,300 Cubic Ya[illegible] & Riprap Estimate[illegible]**

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Stage II: Lock Rehabilitation

Major Work Items

- **Resurfacing the Lock Chamber**
- **Replacing the Lock Machinery**
- **Replacing Site Electrical Systems**

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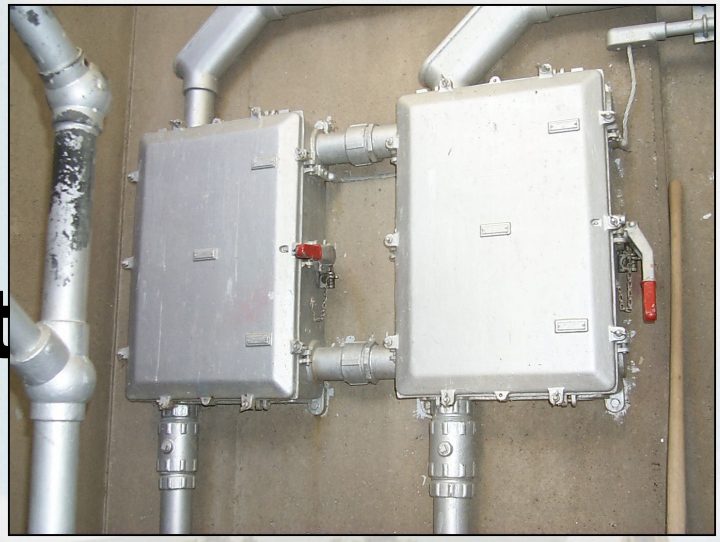
Installing Electrical Component



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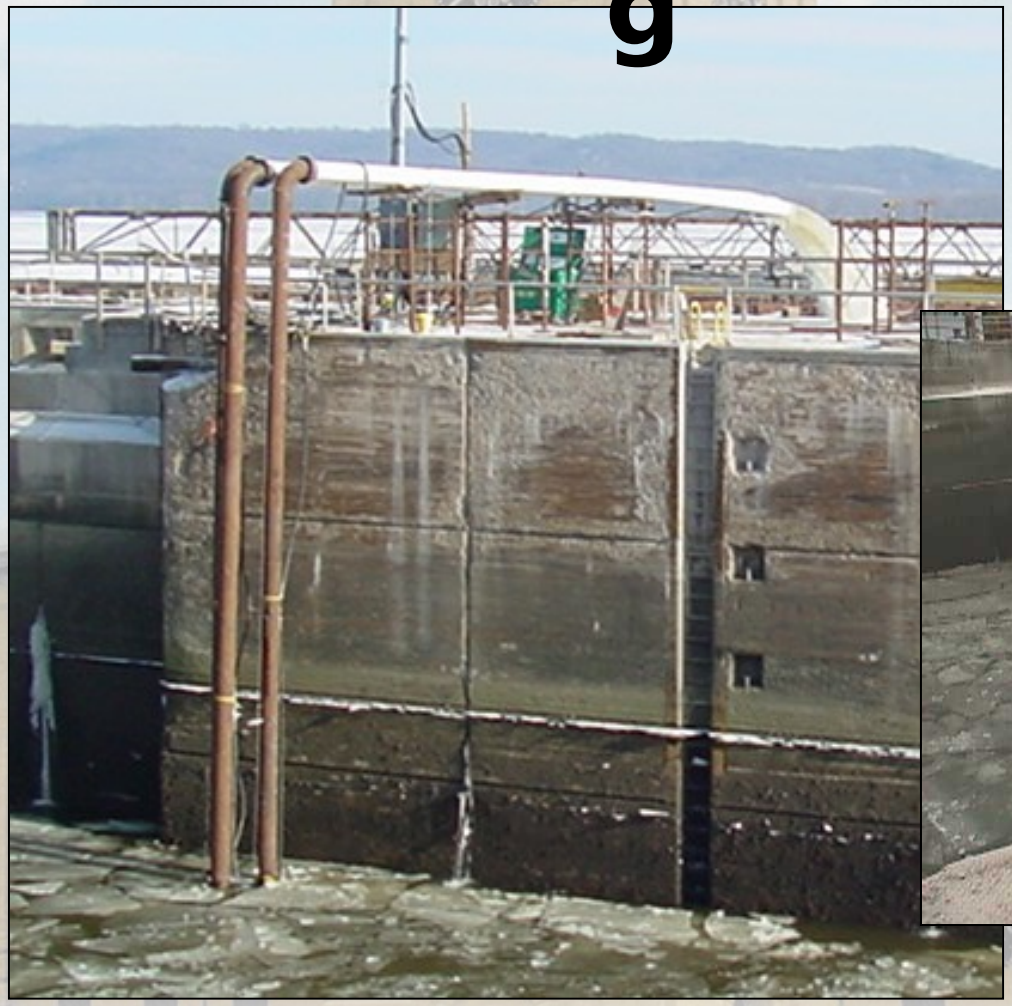
Dewatering



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Miter Gate Repairs

- Make Structural Rep
- Sandblast & Paint
- Replace Seals

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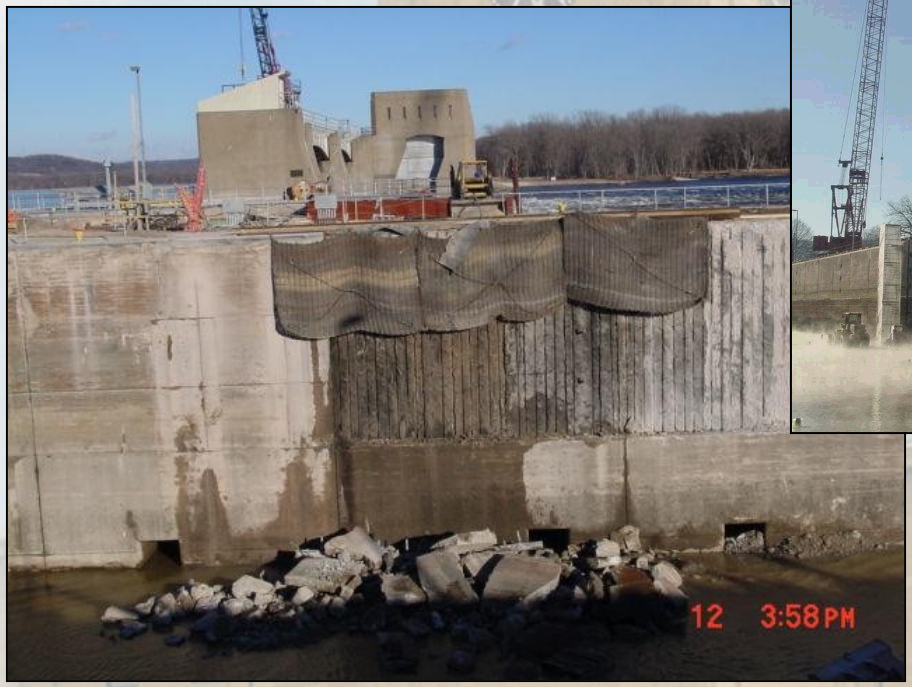
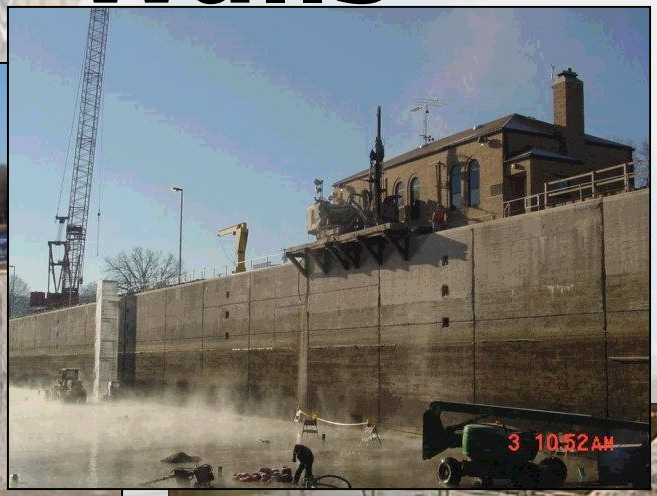
Removing Concrete on Walls





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Working with the Community

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Removing Debris

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Installing Pre-Cast Panels

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Miter Gate Machinery

- Remove & Replace Existing Machinery
- Elevate Machinery to Higher Location

Before

After

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Tainter Valves

- Make Structural Repairs
- Sandblast & Paint
- Replace Seals
- Install New Elevat
  Machinery

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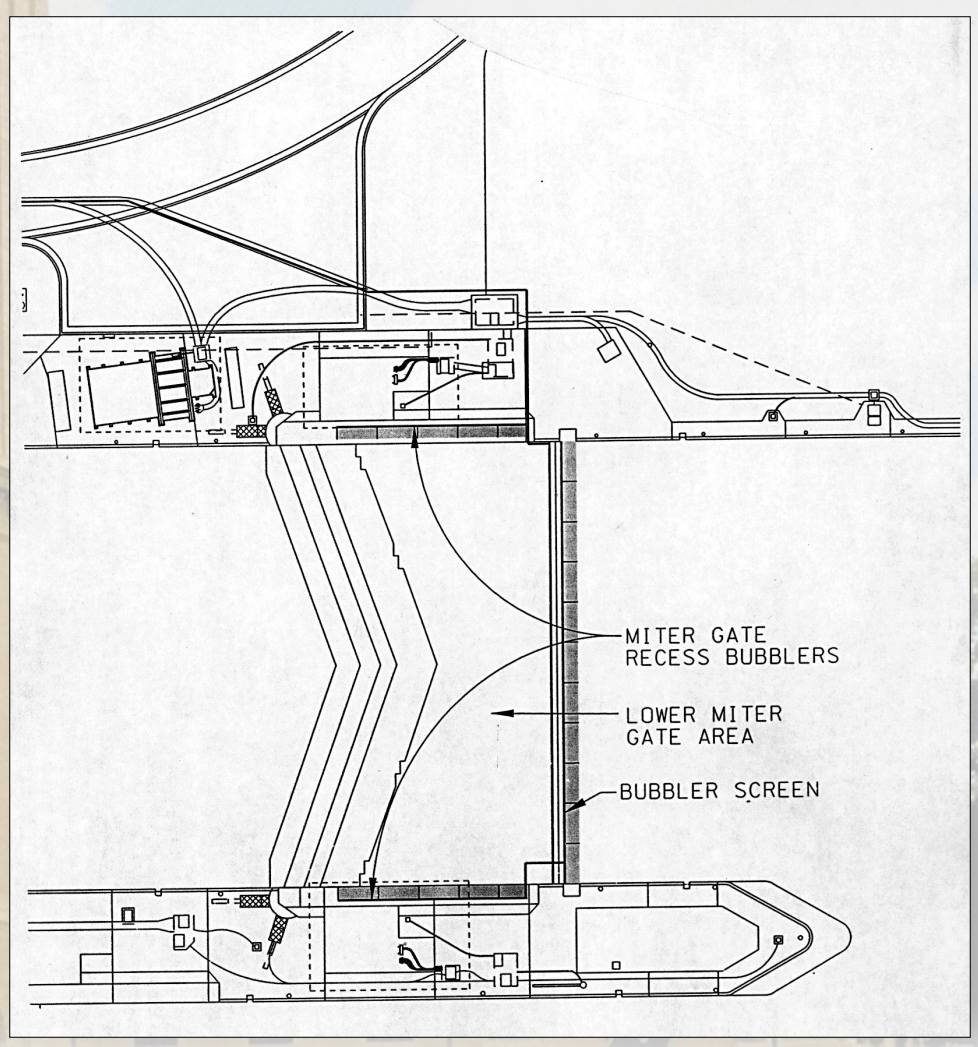
Bubbler System



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Stage III: Dam Rehabilitation

- **Roller-Gate Chains**
- **Rehabilitate Upper Portion of Chains**
  - **Replace Lower Portion of Chains**
- **Service Bridge**
  - **Replace Wooden Decking With Non-Skid Steel Grating**
- **Tainter-Gate Chains**
  - **Replace Existing Chain With Round Link Chain**
  - **Install Pocket Wheel Gear System**

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